FIG. 1

CCCACGCGTCCGCAGCTTCCCGAGGCTCCGCACCAGCCGCGCTTCTGTCCGCC TGCAGGGCATTCCAGAAAGATGAGGATATTTGCTGTCTTTATATTCATGACCT ACTGGCATTTGCTGAACGCATTTACTGTCACGGTTCCCAAGGACCTATATGTG GTAGAGTATGGTAGCAATATGACAATTGAATGCAAATTCCCAGTAGAAAAAC AATTAGACCTGGCTGCACTAATTGTCTATTGGGAAATGGAGGATAAGAACAT TATTCAATTTGTGCATGGAGAGGAAGACCTGAAGGTTCAGCATAGTAGCTAC AGACAGAGGCCCGGCTGTTGAAGGACCAGCTCTCCCTGGGAAATGCTGCAC TTCAGATCACAGATGTGAAATTGCAGGATGCAGGGGTGTACCGCTGCATGAT CAGCTATGGTGCTGCCGACTACAAGCGAATTACTGTGAAAGTCAATGCCCCA TACAACAAAATCAACCAAAGAATTTTGGTTGTGGATCCAGTCACCTCTGAAC ATGAACTGACATGTCAGGCTGAGGGCTACCCCAAGGCCGAAGTCATCTGGAC AAGCAGTGACCATCAAGTCCTGAGTGGTAAGACCACCACCACCAATTCCAAG AGAGAGGAGAAGCTTTTCAATGTGACCAGCACACTGAGAATCAACACAACA ACTAATGAGATTTTCTACTGCACTTTTAGGAGATTAGATCCTGAGGAAAACCA TACAGCTGAATTGGTCATCCCAGAACTACCTCTGGCACATCCTCCAAATGAA AGGACTCACTTGGTAATTCTGGGAGCCATCTTATTATGCCTTGGTGTAGCACT GGCATCCAAGATACAAACTCAAAGAAGCAAAGTGATACACATTTGGAGGAG ACGTAATCCAGCATTGGAACTTCTGATCTTCAAGCAGGGATTCTCAACCTGTG GGATGCAGGCAATGTGGGACTTAAAAGGCCCCAAGCACTGAAAATGGAACCT GGCGAAAGCAGAGGAGGAGAATGAAGAAGATGGAGTCAAACAGGGAGCC TGGAGGGAGACCTTGATACTTTCAAATGCCTGAGGGGCTCATCGACGCCTGT GACAGGAGAAAGGATACTTCTGAACAAGGAGCCTCCAAGCAAATCATCCAT TGCTCATCCTAGGAAGACGGGTTGAGAATCCCTAATTTGAGGGTCAGTTCCTG CAGAAGTGCCCTTTGCCTCCACTCAATGCCTCAATTTCTTTTCTGCATGACTG AGAGTCTCAGTGTTGGAACGGGACAGTATTTATGTATGAGTTTTTCCTATTTA TTTTGAGTCTGTGAGGTCTTCTTGTCATGTGAGTGTGGTTGTGAATGATTTCTT TTGAAGATATATTGTAGTAGATGTTACAATTTTGTCGCCAAACTAAACTTGCT GCTTAATGATTTGCTCACATCTAGTAAAACATGGAGTATTTGTAAGGTGCTTG GTCTCCTCTATAACTACAAGTATACATTGGAAGCATAAAGATCAAACCGTTG GTTGCATAGGATGTCACCTTTATTTAACCCATTAATACTCTGGTTGACCTAAT CTTATTCTCAGACCTCAAGTGTCTGTGCAGTATCTGTTCCATTTAAATATCAG CTTTACAATTATGTGGTAGCCTACACACATAATCTCATTTCATCGCTGTAACC ACCCTGTTGTGATAACCACTATTATTTTACCCATCGTACAGCTGAGGAAGCAA ACAGATTAAGTAACTTGCCCAAACCAGTAAATAGCAGACCTCAGACTGCCAC CCACTGTCCTTTATAATACAATTTACAGCTATATTTTACTTTAAGCAATTCTT TTATTCAAAAACCATTTATTAAGTGCCCTTGCAATATCAATCGCTGTGCCAGG CATTGAATCTACAGATGTGAGCAAGACAAAGTACCTGTCCTCAAGGAGCTCA TAGTATAATGAGGAGATTAACAAGAAAATGTATTATTACAATTTAGTCCAGT GTCATAGCATAAGGATGATGCGAGGGGAAAACCCGAGCAGTGTTGCCAAGA GGAGGAAATAGGCCAATGTGGTCTGGGACGGTTGGATATACTTAAACATCTT AATAATCAGAGTAATTTTCATTTACAAAGAGAGGTCGGTACTTAAAATAACC

FIG. 1 (continued)

CTTTGCCATATAATCTAATGCTTGTTTATATAGTGTCTGGTATTGTTTAACAGT TCTGTCTTTTCTATTTAAATGCCACTAAATTTTAAATTCATACCTTTCCATGAT TCAAAATTCAAAAGATCCCATGGGAGATGGTTGGAAAATCTCCACTTCATCC TTTTAAAATTTTTTCCTAAATAGTAACACATTGTATGTCTGCTGTGTACTTTG TCCCAGGGCTGAGGATCCATGCCTTCTTTGTTTCTAAGTTATCTTTCCCATAGC TTTTCATTATCTTTCATATGATCCAGTATATGTTAAATATGTCCTACATATACA TTTAGACAACCACCATTTGTTAAGTATTTGCTCTAGGACAGAGTTTGGATTTG TTTATGTTTGCTCAAAAGGAGACCCATGGGCTCTCCAGGGTGCACTGAGTCA ATCTAGTCCTAAAAAGCAATCTTATTATTAACTCTGTATGACAGAATCATGTC TGGAACTTTTGTTTTCTGCTTTCTGTCAAGTATAAACTTCACTTTGATGCTGTA CTTGCAAAATCACATTTTCTTTCTGGAAATTCCGGCAGTGTACCTTGACTGCT AGCTACCCTGTGCCAGAAAAGCCTCATTCGTTGTGCTTGAACCCTTGAATGCC ACCAGCTGTCATCACTACACAGCCCTCCTAAGAGGCTTCCTGGAGGTTTCGA GATTCAGATGCCCTGGGAGATCCCAGAGTTTCCTTTCCCTCTTGGCCATATTC TGGTGTCAATGACAAGGAGTACCTTGGCTTTGCCACATGTCAAGGCTGAAGA AACAGTGTCTCCAACAGAGCTCCTTGTGTTATCTGTTTGTACATGTGCATTTG TACAGTAATTGGTGTGACAGTGTTCTTTGTGTGAATTACAGGCAAGAATTGTG GCTGAGCAAGGCACATAGTCTACTCAGTCTATTCCTAAGTCCTAACTCCTCCT TGTGGTGTTGGATTTGTAAGGCACTTTATCCCTTTTGTCTCATGTTTCATCGTA AATGGCATAGGCAGAGATGATACCTAATTCTGCATTTGATTGTCACTTTTTGT ACCTGCATTAATTAATAAAATATTCTTATTTATTTTGTTACTTGGTAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

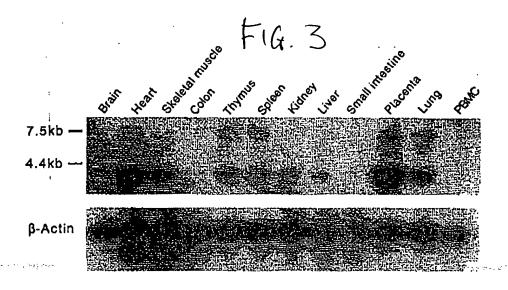
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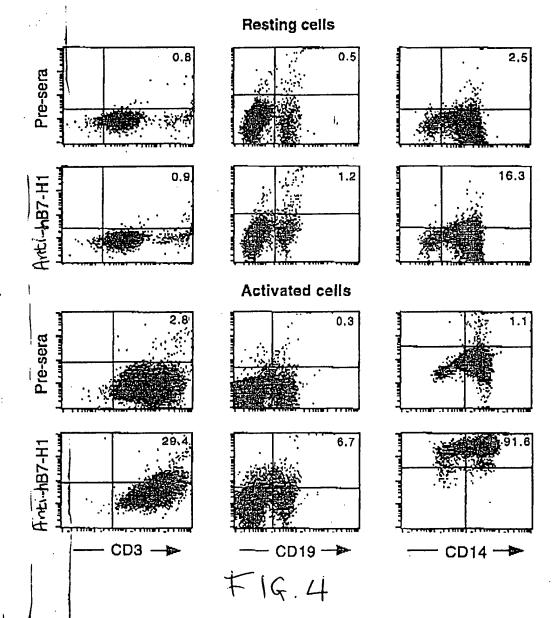
Signal peptide

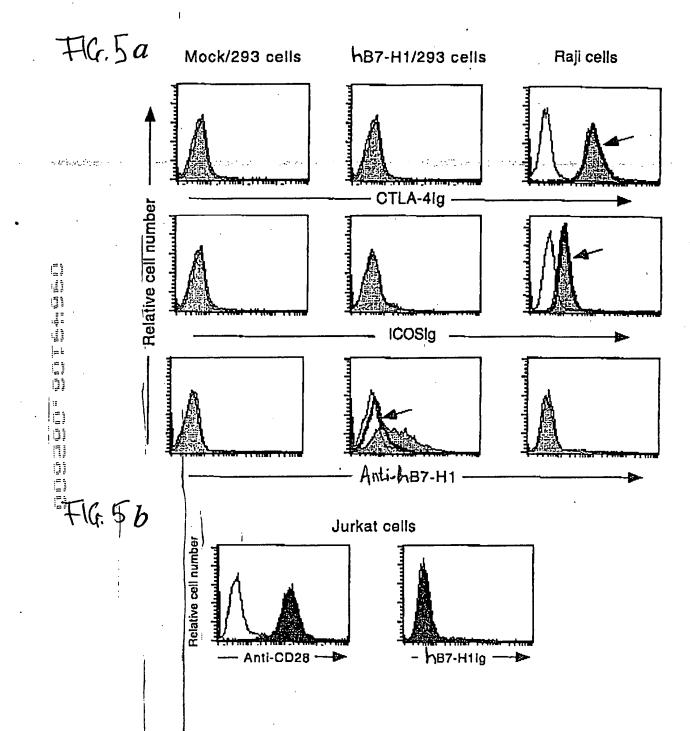
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- 51 AALIVYWEMEDKNIIQFVHGEEDLKVQHSSYRQRARLLKDQLSLGNAALQ
- 101 ITDVKLQDAGVYRCMISYGGADYKRITVKVNAPYNKINQRILVVDPVTSE lg-C-like
- 151 HELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFNVTSTLRIN
 - 201 TTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERTHLVILGAILLC
 TM
 - 251 LGVALTFIFRLRKGRMMDVKKCGIQDTNSKKQSDTHLEET

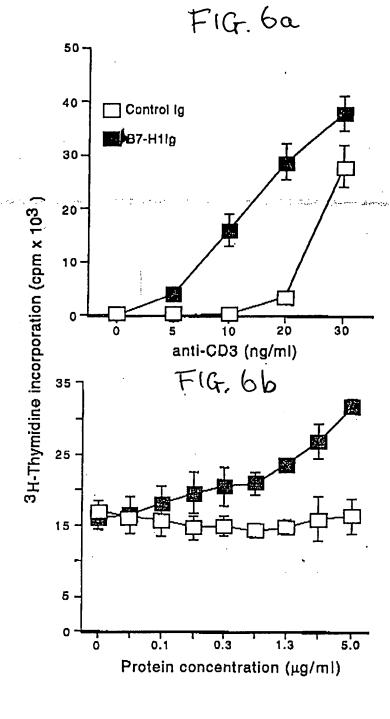
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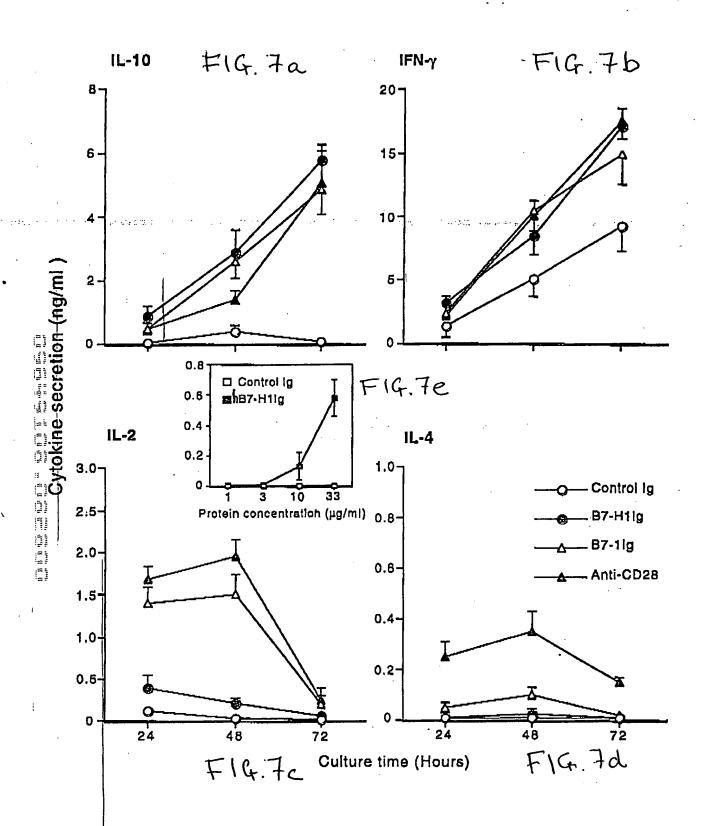


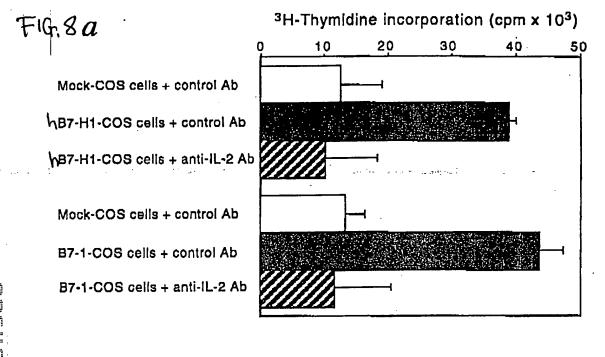


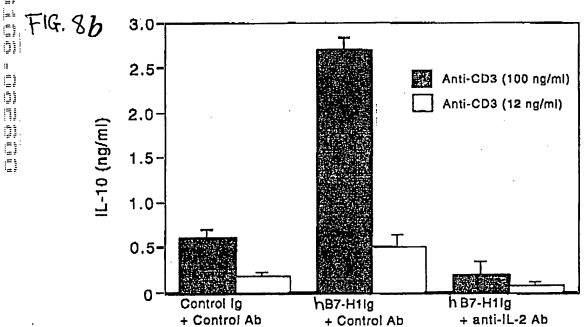


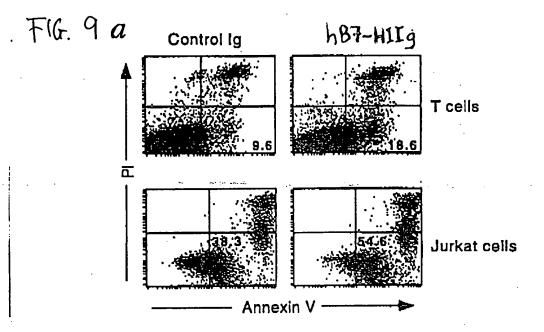


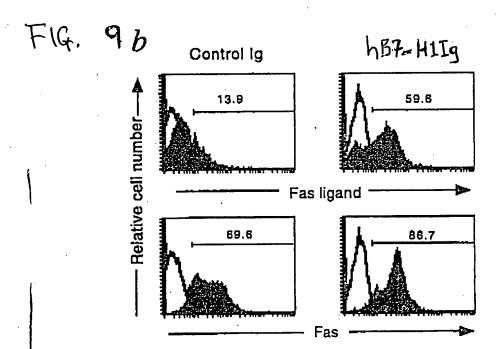
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ATGAGGATATTTGCTGGCATTATATTCACAGCCTGCTGTCACTTGCTACGGGC GTTTACTATCACGGCTCCAAAGGACTTGTACGTGGTGGAGTATGGCAGCAAC GTCACGATGGAGTGCAGATTCCCTGTAGAACGGGAGCTGGACCTGCTTGCGT TAGTGGTGTACTGGGAAAAGGAAGATGAGCAAGTGATTCAGTTTGTGGCAGG AGAGGAGGACCTTAAGCCTCAGCACAGCAACTTCAGGGGGAGAGCCTCGCT GCCAAAGGACCAGCTTTTGAAGGGAAATGCTGCCCTTCAGATCACAGACGTC AAGCTGCAGGACGCAGGCGTTTACTGCTGCATAATCAGCTACGGTGGTGCGG ACTACAAGCGAATCACGCTGAAAGTCAATGCCCCATACCGCAAAATCAACCA GAGAATTTCCGTGGATCCAGCCACTTCTGAGCATGAACTAATATGTCAGGCC GAGGGTTATCCAGAAGCTGAGGTAATCTGGACAAACAGTGACCACCAACCCG TGAGTGGGAAGAGAGTGTCACCACTTCCCGGACAGAGGGGATGCTTCTCAA TGTGACCAGCAGTCTGAGGGTCAACGCCACAGCGAATGATGTTTTCTACTGT ACGTTTTGGAGATCACAGCCAGGGCAAAACCACACAGCGGAGCTGATCATCC CAGAACTGCCTGCAACACATCCTCCACAGAACAGGACTCACTGGGTGCTTCT GGGATCCATCCTGTTGTTCCTCATTGTAGTGTCCACGGTCCTCCTCTTCTTGAG AAAACAAGTGAGAATGCTAGATGTGGAGAAATGTGGCGTTGAAGATACAAG CTCAAAAACCGAAATGATACACAATTCGAGGAGACGTAA

MRIFAGIIFTACCHLLRAFTITAPKDLYVVEYGSNVTMECRFPVERELDLLALVV YWEKEDEQVIQFVAGEEDLKPQHSNFRGRASLPKDQLLKGNAALQITDVKLQDA GVYCCIISYGGADYKRITLKVNAPYRKINQRISVDPATSEHELICQAEGYPEAEVI WTNSDHQPVSGKRSVTTSRTEGMLLNVTSSLRVNATANDVFYCTFWRSQPGQN HTAELIIPELPATHPPQNRTHWVLLGSILLFLIVVSTVLLFLRKQVRMLDVEKCGV EDTSSKNRNDTQFEET

| | 1 [| signal peptide ———————————————————————————————————— |
|----------------------------|------------------|---|
| mouse B7-H1 human B7-H1 | 1 1 W.K. | M.R. H. F. A. G. I. I. E. F. T. A. C. C. H. E. L. R. A. F. F. T. T. A. P. K. D. L. Y. W. F. Y. G.S. N. 35 M.R. L. F. A. V. F. E. F. M. T. Y. W. H. L. L. D. N. A. F. T. V. T. V. P. K. D. L. Y. V. V. E. Y. G. S. N. 35 I. O.Vlike domain |
| mouse B7-H1 human B7-H1 | 36 V 36 M | 4. 1. 3.3 |
| mouse B7-H1 human B7-H1 | 71 E | E E DELK POHES N FER GRASTED FERDOLE L K GANAA A LOST T DVK 105 E EDDEKK VOHES SYR O'R A RELL K DOUL SL GANAA TOOTT DVK 105 |
| mouse B7-H1 human B7-H1 | 106 106 | L Q D A G V Y R C M I S Y G G A D Y K R I T L K V N A R Y R I N Q R 140 L Q D A G V Y R C M I S Y G G A D Y K R T T V K V N A R Y N K I N Q R 140 L Q D A G V Y R |
| mouse B7-H1 human B7-H1 | 141 | S - WD P A T.S. E. H. E. L. T. C. O. A. E. G. Y. P. W. T. W. T. S. S. D. H. O. V. 174 L. V. W. D. R. V. T. S. E. H. E. L. T. C. O. A. E. G. Y. P. K. A. E. W. T. W. T. S. S. D. H. O. V. L. 175 |
| mouse B7-H1 human B7-H1 | 175 °S 176 S | SCKR R S VTTT S R T E G M E L N V TES S D R V N A T A N D V F Y C T 209 S G K T T T T T N S K R E E K E F N N T T T T N E I F Y C T 210 |
| mouse B7-H1 human B7-H1 | 210 涯 211 | FWR S OF GONHOT ANEL I WE BALL OF HERSE ON R.T. HWW LLG 244 R R L DR E EN HELABELV MRREHR LANGER NERSEN BERTHLW 1 LCG 245 |
| mouse B7-H1 human B7-H1 | 245 S 246 A | |
| mouse B7-H1 human B7-H1 | 280 KK 280 KK | — cytoplasmic———————————————————————————————————— |

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CPRLICULF
- LAIGUF
      mB7-H1
                                                  mB7-1
                                                                                                                                                                                                                 V T 16
      mB7-2
      mB7h/B7RP-1
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                                        HITRAFTITAPKDLYVVEYGSNVTMECRFPVEREL 48
LIRLSQVSSDVDEQLSKSVKDKVLLPPGRYNSPHED 62
VLLISDAVSVETQAYFNGT---AYEPGPETKAQNI 48
LIESSLCAASAETEVGAMVGSNVVISCIDPHRRHF70
      mB7-H1
      mB7-1
                                   17
      mB7-2
      mB7h/B7RP-1
                                  36
                                              LL
                                                              S
                                             ELABLY WYWEK - - EDEQWIQ - FVAGEEDEK POHSN 80
ESEDRILYWOK - - HDKVWLS - - - VIAGKEK - VWPE 90
ESELVWEWOD - - QOKLWLYEHYLGTEKED SWNAK 81
LSGLYWYWOIEN PEVSWTYYLPYKSPGIN - WDSS 104
                                          DELL
      mB7-H1
      mB7-1
      mB7-2
      mB7h/B7RP-1 71...N
                                                                        VYWQ
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                                         FRGRASLPKDQLLKGNAAGQITDVK
VKNR--TLYDNT--TYSCIILGLV
VLGR--TSFDRN---NWTDRLHNVQ
VKNRGHLSLDSMKQGNFSTYLKNVT
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V L S D R G T
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      mB7-2
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      mB7h/B7RP-1 105
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D F S T P N I T E G N 155
N F S E P E I K L A Q N 146
N F S T P V I S T 5 D S 174
                                 116 I S - - - - - Y G G A D Y K R I T E K W N
121 V Q K K E R G T Y E V K H L A L V K E S I K
112 I Q K K P P T G S I I L Q Q T L T E E S W I
140 V F M N T A T E L V K I L E E V V R E R W A
      mB7-H1
      mB7-1
      mB7-2
      mB7h/B7RP-1 140
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                                                                                                                                                    - - VIWINS DHOPVS 175
                                        PATSE-HELLIGPSADT-KRITCOVTGNSGINLITCOSNPGQERTYTCO
                                                                                                 QAE-GYPEAE--VIWTNSDHOPFASGGFPKPR--FSWLENGRELTSKQGHPKPKKMYFLITNSTNEMSKNGYPEPN--LYWINTTDNS
      mB7-H1
     mB7-1
                                  156
                                                                                                                                                                                                                              181
                                                                                                                                                                                                                   Υ
      mB7-2
                                  147
      mB7h/B7RP-1 175
                                                                                                                      G . P
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                                         G K R S V T T - - S R T E G M L L N V T S S L R V N A - - - T A N D V 205 I N T T I S - - - Q D P E S E L Y T I S S O D D F N T - - - T R N H T 216 D N M Q I S - - - Q D N V T E L F S I S N S E S L S F P D G V W H M T 213 D T A L Q N N T V Y L N K L G L Y D V I S T L R L P W - - - T S R G D 239
[] mB7-H1
                                  188
      mB7-1
                                  182
                                        DNMQL
       mB7-2
                                        DLTJA LQNNTV
       mB7h/B7RP-1 208

      mB7-H1
      206
      F
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      mB7-1
      217
      I
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      L
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      mB7-2
      214
      V
      V
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      I
      S
      S
      K

      mB7h/B7RP-1
      240
      V
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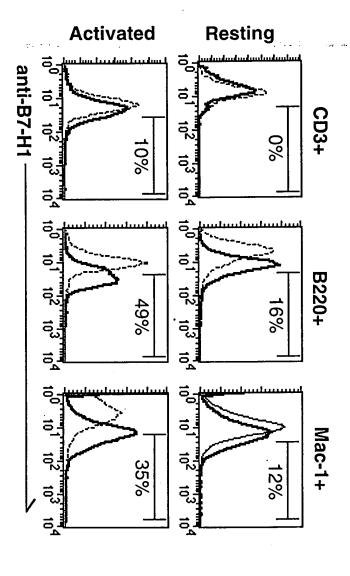
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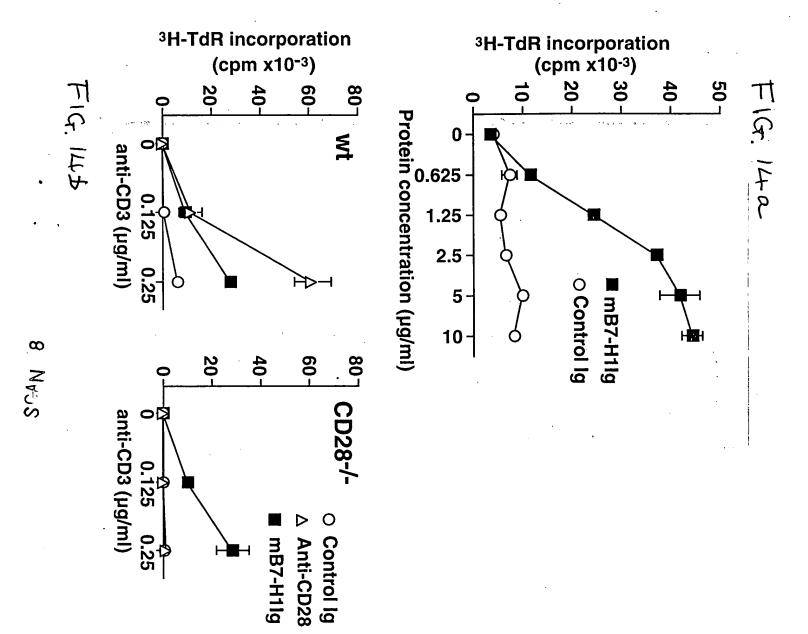
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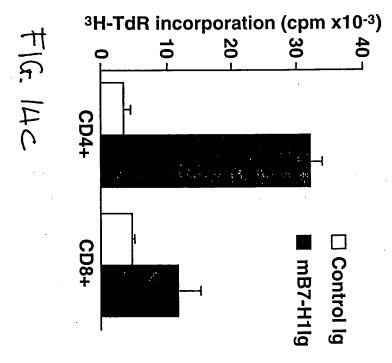
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j mB7-H1
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                                 237 R - THWV LLG S ILL FLIVV S TV LLF L - - - - - R K Q V 245 K N T L V L F G A G F G A W I T W V V I V V I I K C F C K H R S C F 241 - - T Y W K E I T A S V T V A L L L V M L L I I V C H K K P N Q P S 273 - - T H N N E L K V L V P V L A W L A A A A F V S - - - - - F I I Y
                                                                                                                                          TVLLFL
      mB7-H1
                                                                                                                                                                                                                               265
mB7-1
                                                                                                                                                                                                                              279
                                                                                                                                                                                                                              273
                                                                                                                                                                                                                    Y (R) 300
       mB7h/B7RP-1 273
                                                                       - M L D V E K C G V E D T S S K N R -
- - - R N E - A S R E T N N S L T F G
K L E R D S N A D R E T I N L K E L E
- - - R T R - P H R S Y T G P K T V -
                                                                                                                                                                         - N D T Q F E E T 290
P E E A L A E Q T V F L 306
P Q I A S A K P N A E 308
- O L E L T D H A 322
       mB7-H1
       mB7-1
                                  280
       mB7-2
                                  274
       mB7h/B7RP-1 301
                                                                                         R
                                                                                                                       R E
                                                                                                                                                      K
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F14. 125







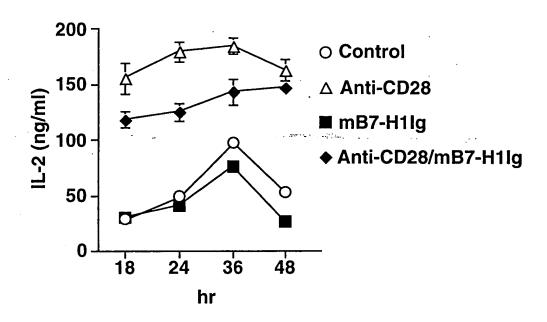
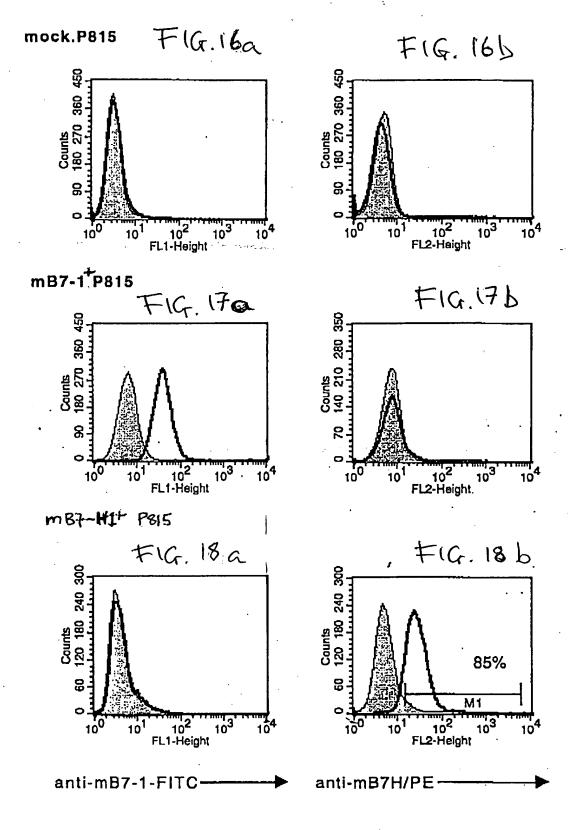


FIG. 15b



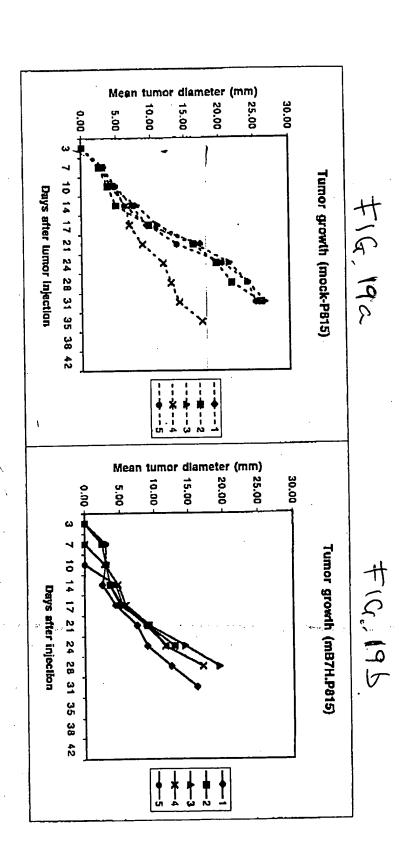


FIG. 20a

